

2018-06-04

# Information Literacy Needs of Engineering Grad Students

Niehof, Jamie

<https://dx.doi.org/10.7302/3166>

<https://hdl.handle.net/2027.42/170121>

<http://creativecommons.org/licenses/by-nc/4.0/>

---

*Downloaded from Deep Blue, University of Michigan's institutional repository*

# Information Literacy Needs of Engineering Grad Students

## ————→ **SURVEY RESULTS**

YOUR ENGINEERING LIBRARIANS:

Leena Lalwani, Paul Grochowski, Jamie Niehof



# WHY CONDUCT THIS SURVEY?

- How are we currently covering Information Literacy?
  - Mostly departmental orientations
  - One-off seminar classes
- What will we learn from the survey?
  - Information about student knowledge
  - Discover student needs
  - Information on what resources we will need to satisfy this demand



# SURVEY LOGISTICS

- Survey Dates: November 6th - 28th, 2017
- Email sent to departmental graduate student groups
- 392 responses / 3,637 CoE graduate student enrollment (10.7% response rate)
- CoE graduate population is 27% of total UM graduate population  
(CoE = 3,637 / UM = 13,415)
- Link to the survey questions: [goo . gl / cMnMFd](https://goo.gl/cMnMFd)

# MASTERS VS. PHD

% response

Masters

150

7.6%

PhD

242

14.9%

0 20 40 60 80 100 120 140 160 180 200 220 240 260

Number of Responses



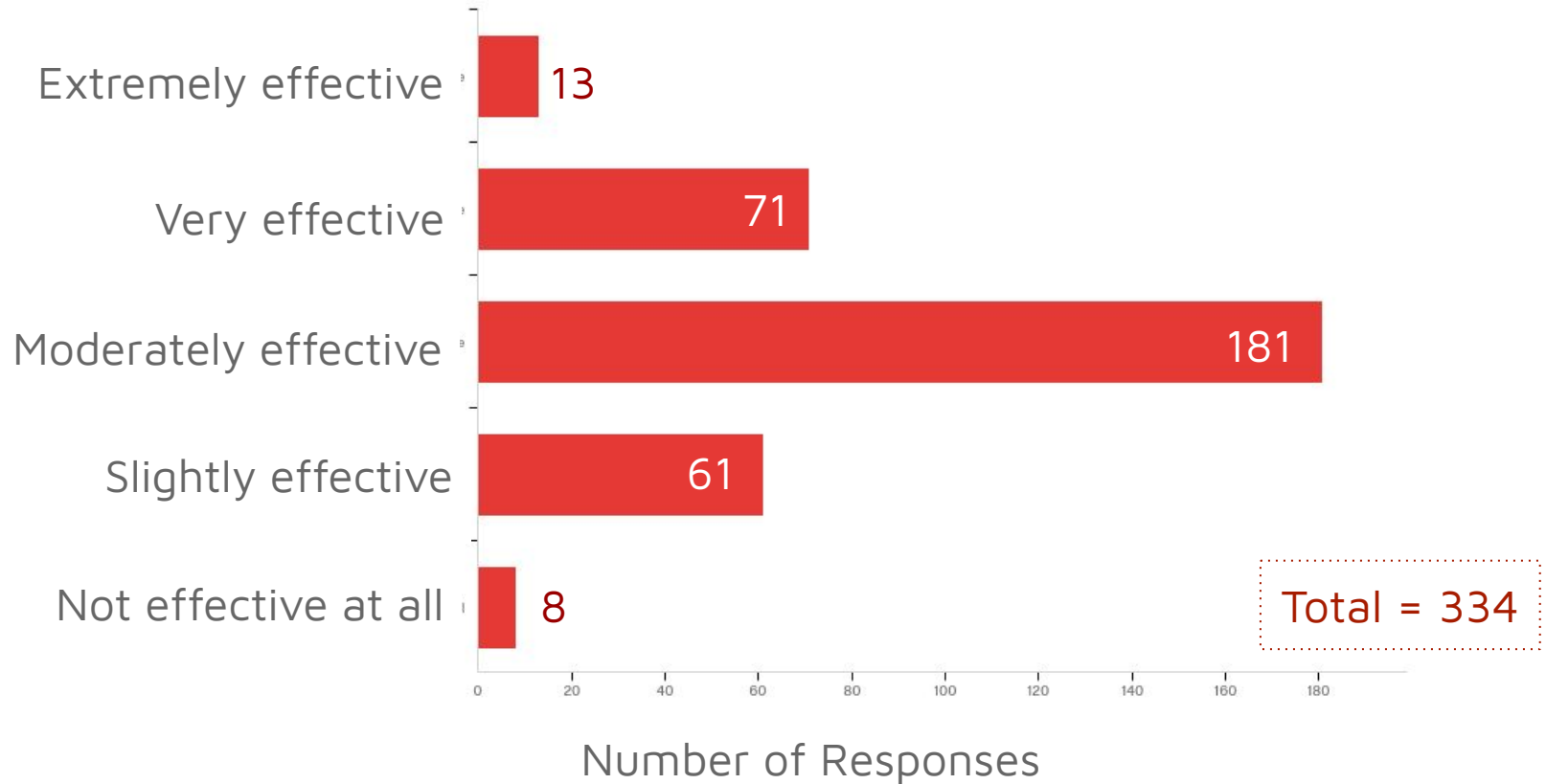


# DEPARTMENT BREAKDOWN

Electrical Eng + Computer Science	82
Mechanical Engineering	68
Civil + Environmental Engineering	38
Aerospace Engineering	32
Materials Science + Engineering	32
Industrial + Operations Engineering	29
Biomedical Engineering	26

Chemical Engineering	26
Integrative Systems + Design	24
Climate + Space Sciences Engineering	15
Nuclear Eng + Radiological Sciences	14
Naval Architecture + Marine Engineering	3
Interdisciplinary Graduate Programs	3

# How effective are you at literature reviews?





# What databases do you search?

Google Scholar — 305

Web of Science — 99

Scopus — 61

PubMed — 49

Other — 46

Eng Village INSPEC — 13

Eng Village Compendex — 13

## OTHER:

“whatever lib.umich.edu offers”

IEEEExplore

ACM Digital Library

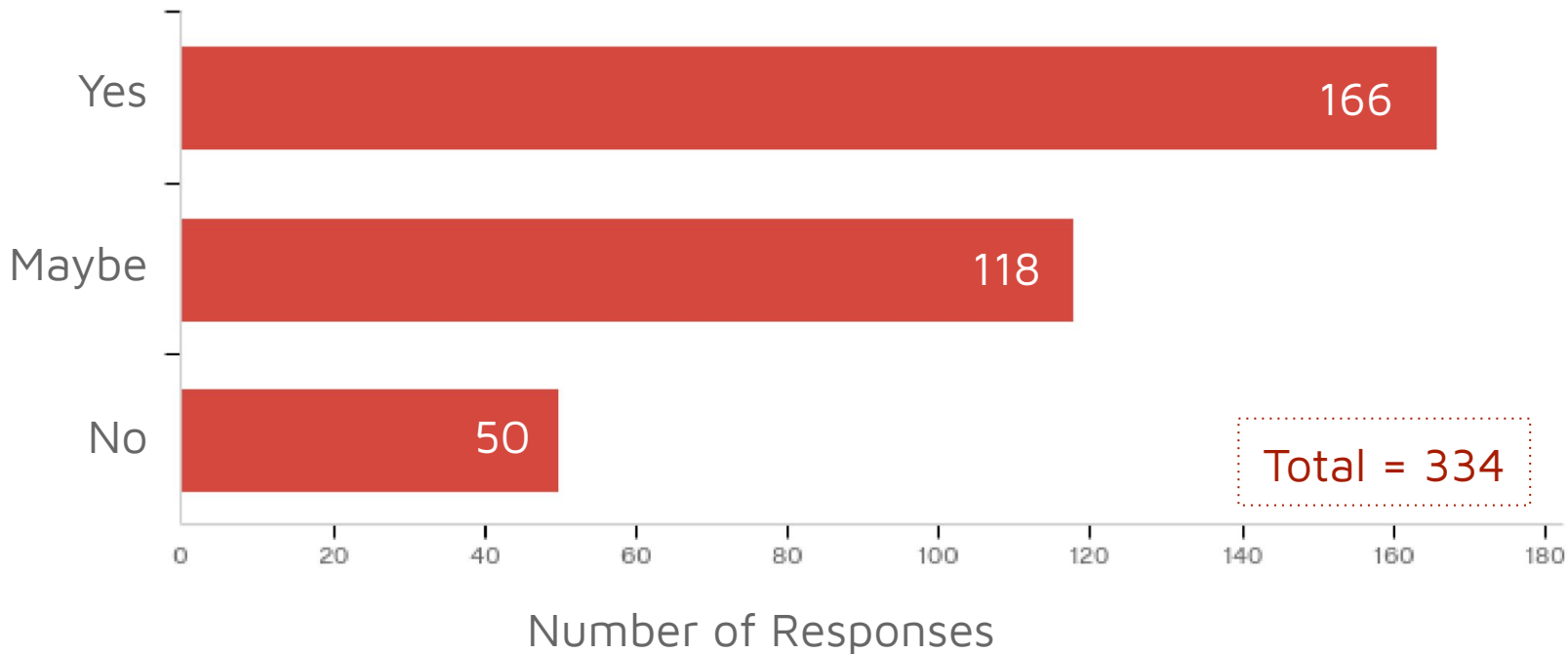
MIRLYN (library’s online catalog)

ScienceDirect

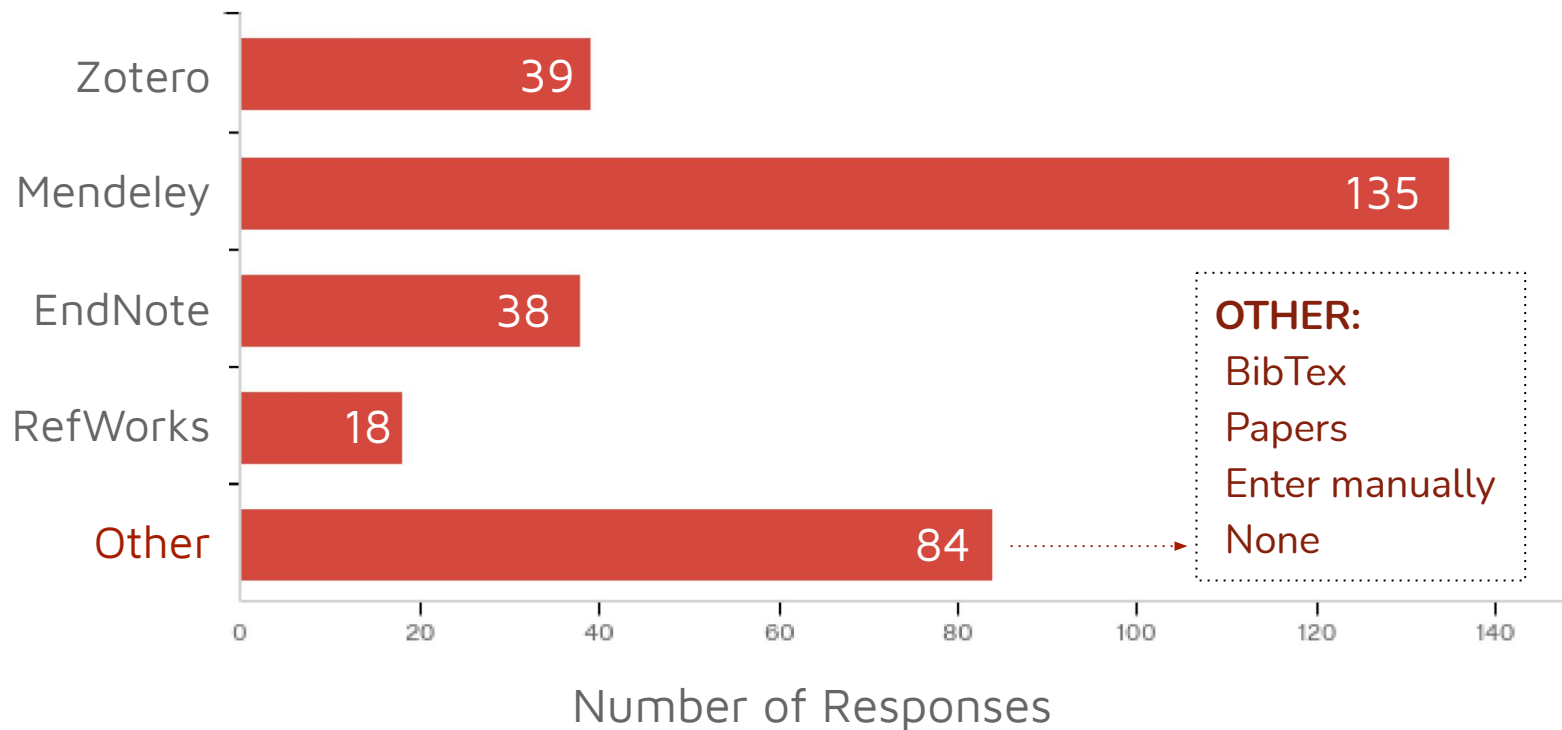
Summon



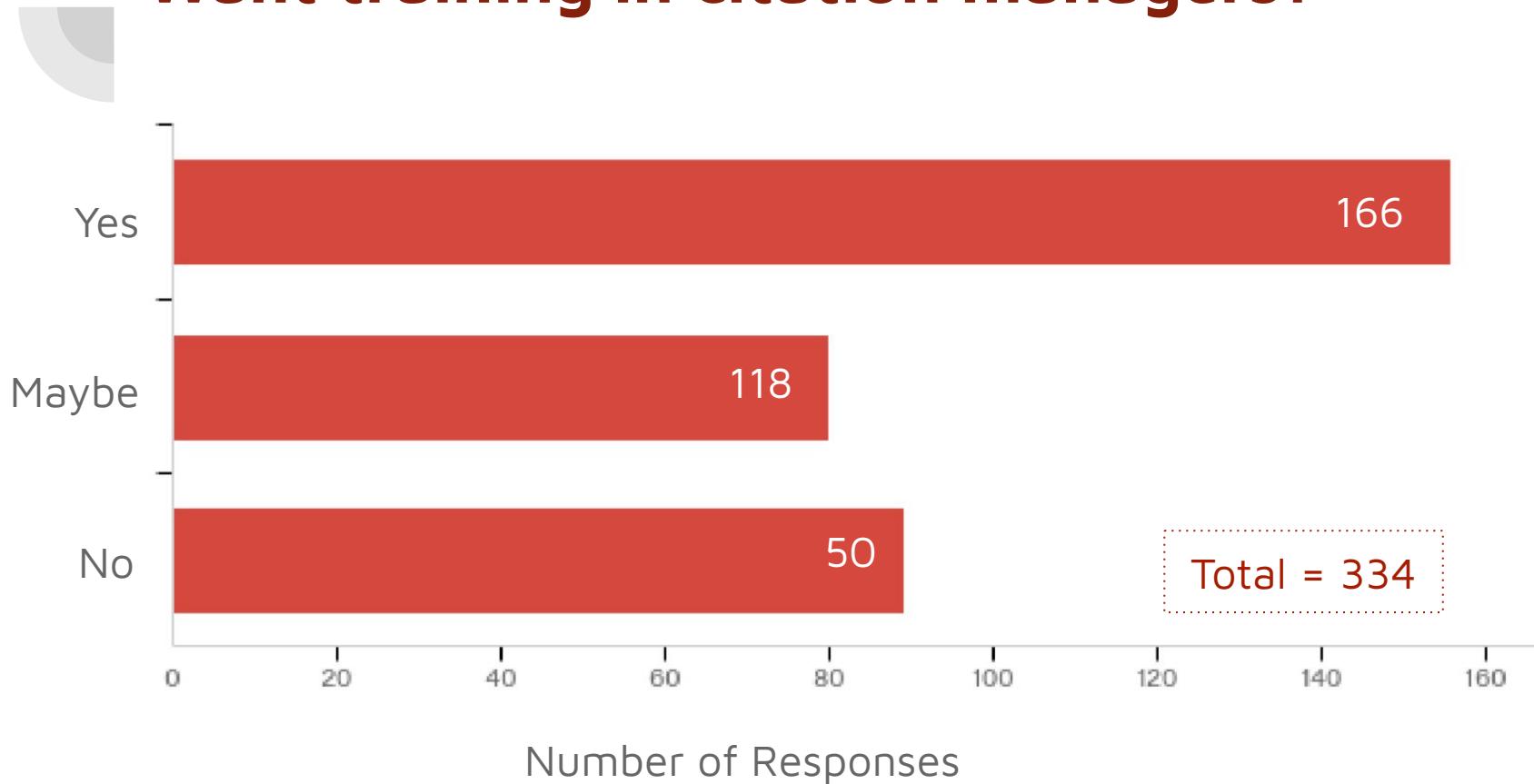
# Want training in searching for literature?



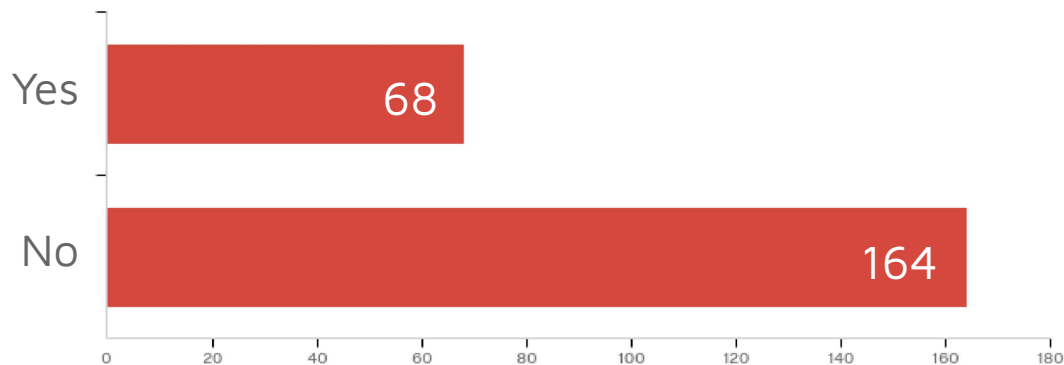
# What do you use for citation management?



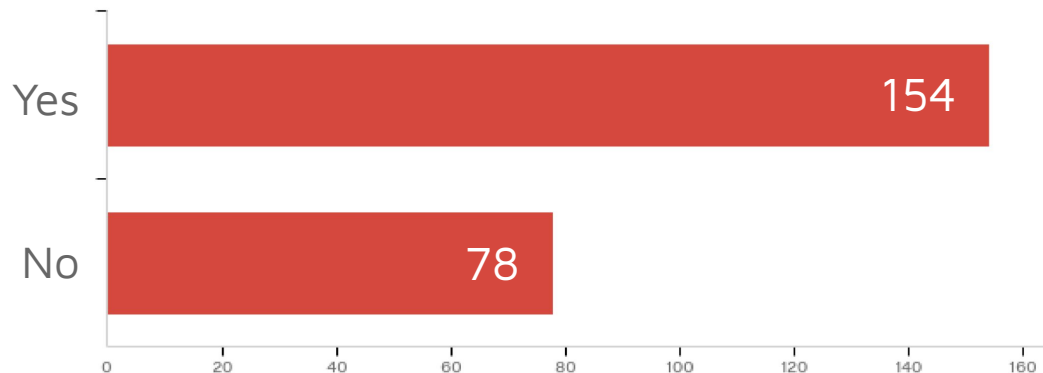
# Want training in citation managers?



# Need to find funding for your research?

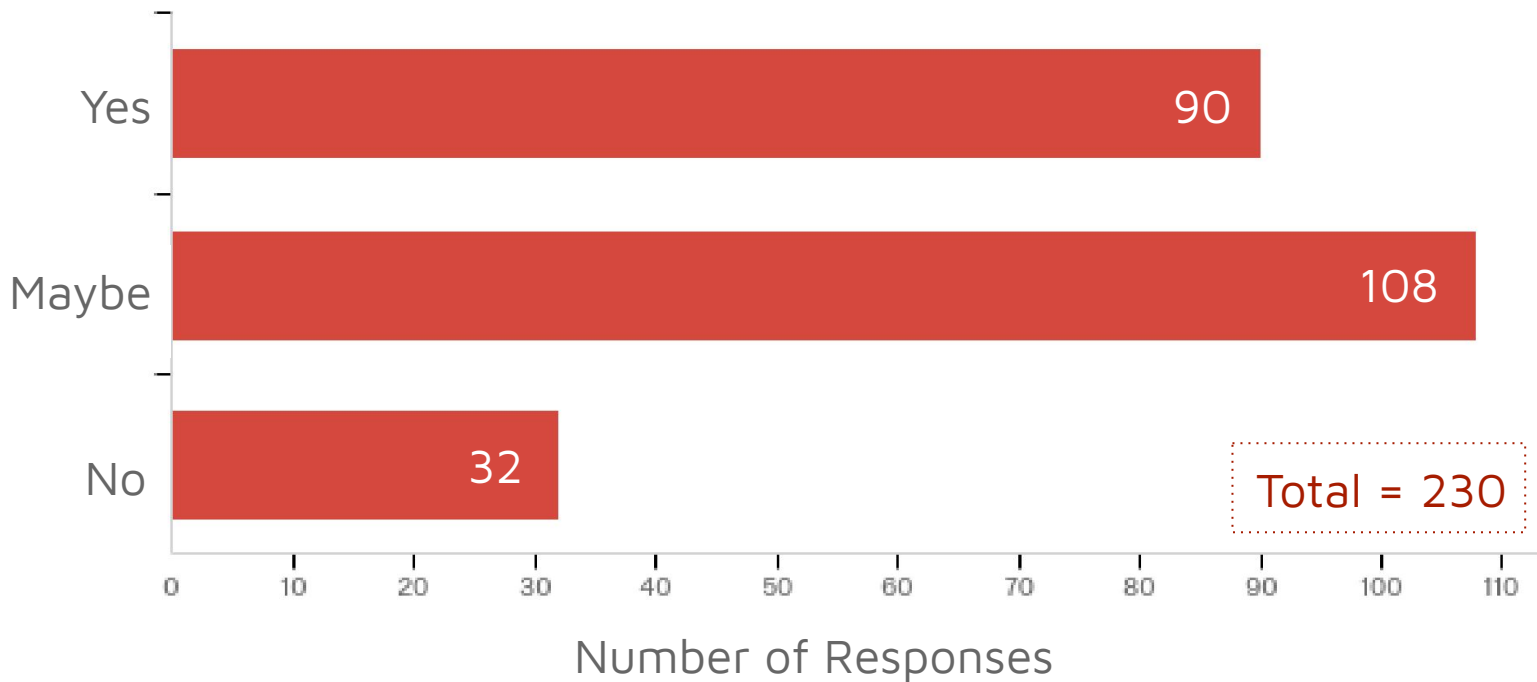


## Want training in finding funding?



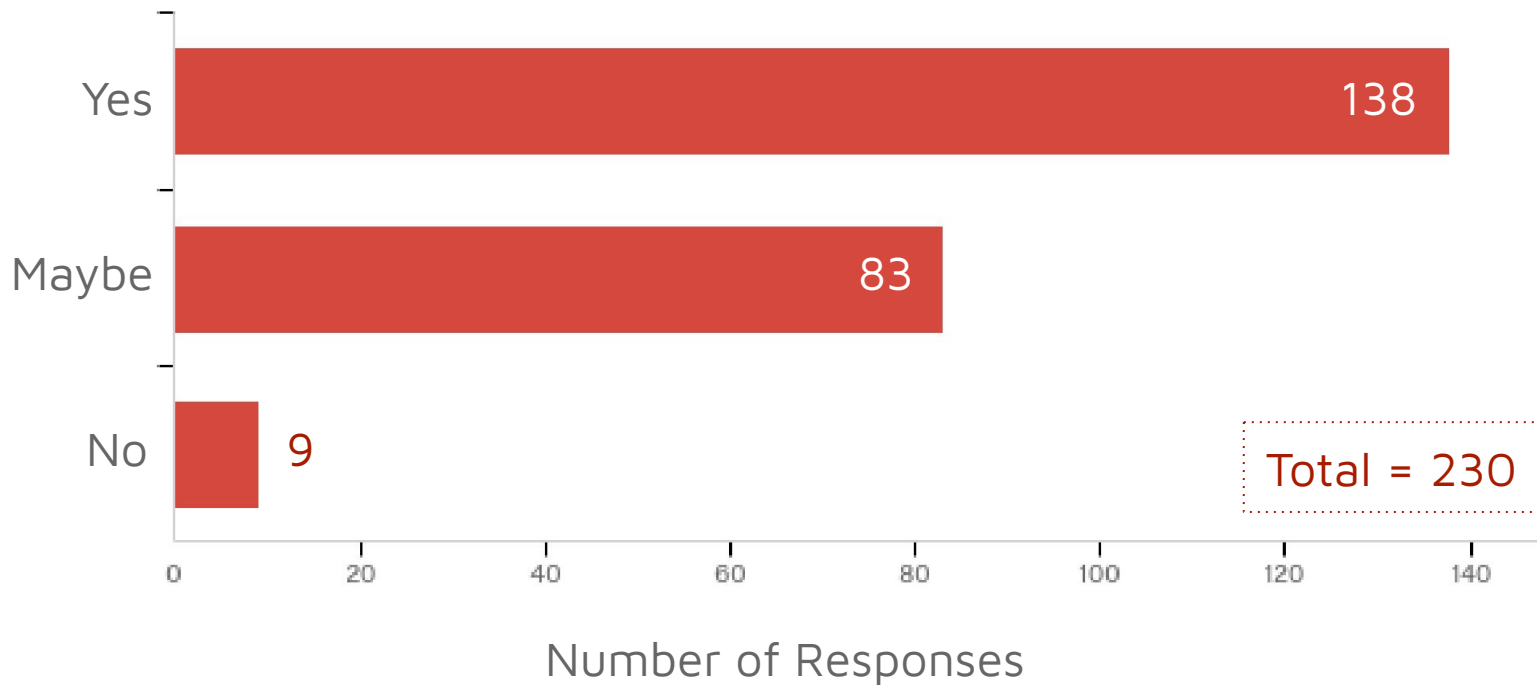


# Confident your research data is saved appropriately?



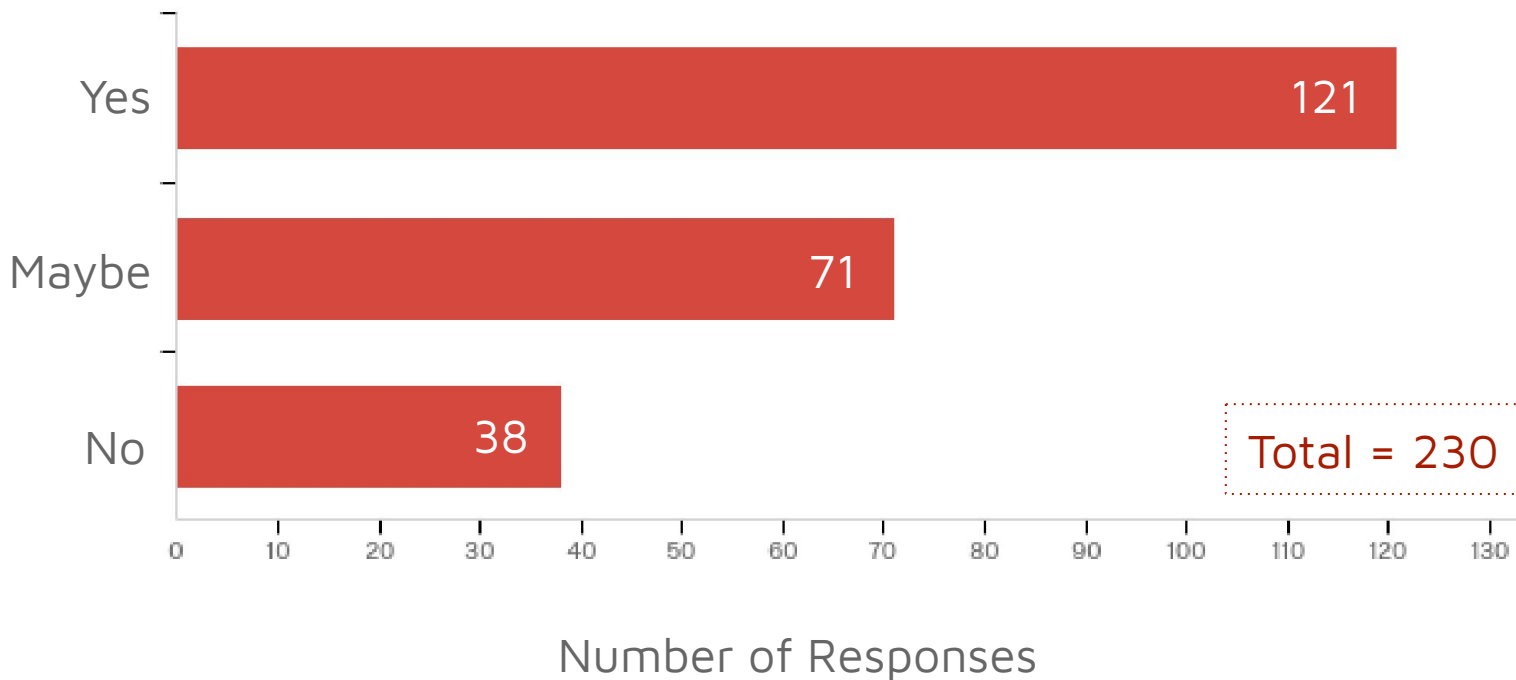


# Confident you can analyze your data effectively?

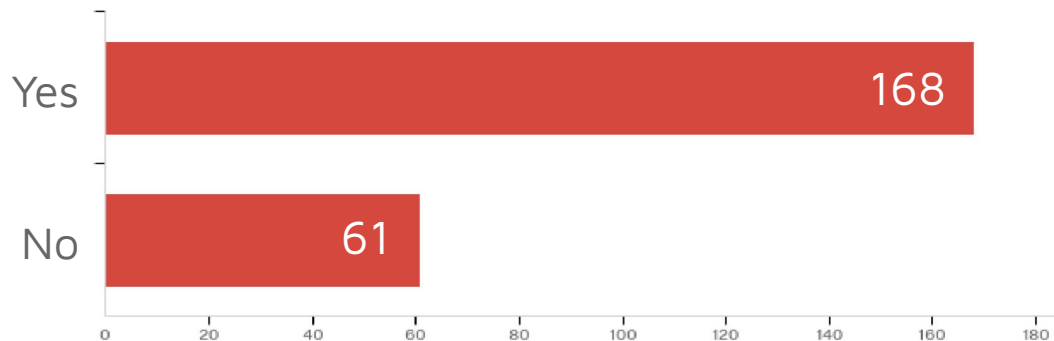




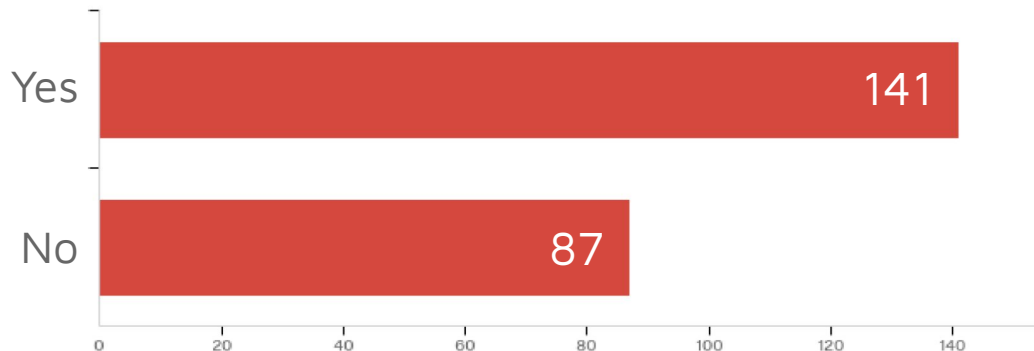
# Want training on how to comply with grant regulations pertaining to data?



# Aware of best journals to publish in?

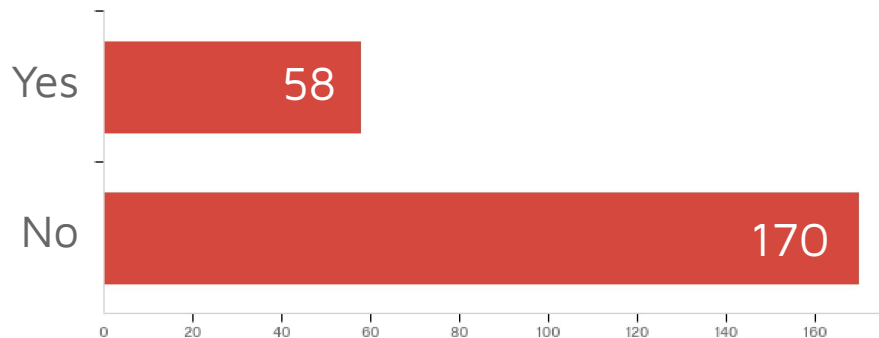


## Want training in finding journals?

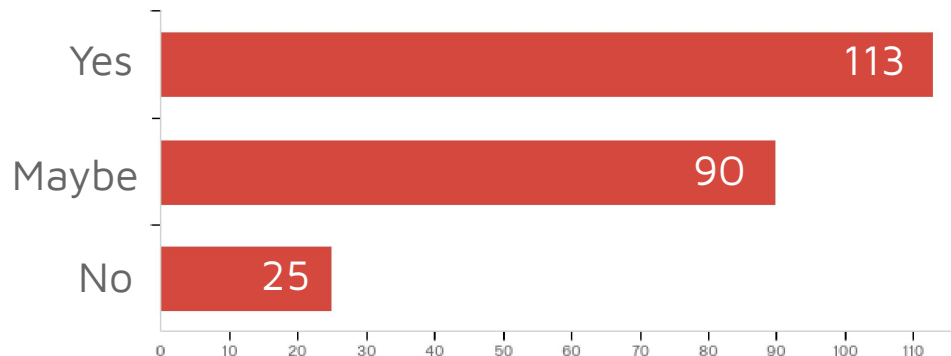




# Aware you can negotiate copyright license when publishing?



**Want training  
in negotiating  
copyright?**





# Describe research needs not being met

- Access to Articles — 3
- Finding Funding — 2
- Data Management — 3
- Return the Engineering Books to the Duderstadt Center — 5



# Describe research needs not being met

- “Research in fields that I have little or no expertise: how to quickly find the background information I need.”
- “Effective way to store data in a single location.”
- “Finding OLD articles, ie pre-internet. Some journals I need are not online.”
- “Training on how to get out of the research game.”



# Describe research needs not being met

Find a complete list of write-in responses here:

[goo.gl/gjj8Ai](https://goo.gl/gjj8Ai)



## NEXT STEPS

- Two focus groups with CoE graduate students
- Share our survey and focus group results with the College of Engineering (CoE) Associate Dean for Graduate Education
- Plan a series of workshops to address student needs
- Present survey and focus group results at 2018 ASEE Annual Conference

The background is a solid orange color. In the top right corner, there are three decorative circles of varying sizes. Each circle contains a smaller, semi-transparent orange circle, creating a layered effect.

# Questions?

**You have 3 minutes.**